

Ca

Xylenic acid. N. V. Chakov. U.S.S.R. 63,816, Feb. 24, 1946. Through an aq. soln. of xylenic concg. $\text{Ca}(\text{OH})_2$ at 20-40°, until a pH 8-10, is passed air. Xylenic acid is set free from the precip. Ca xylenate by the usual method.

M. Horn

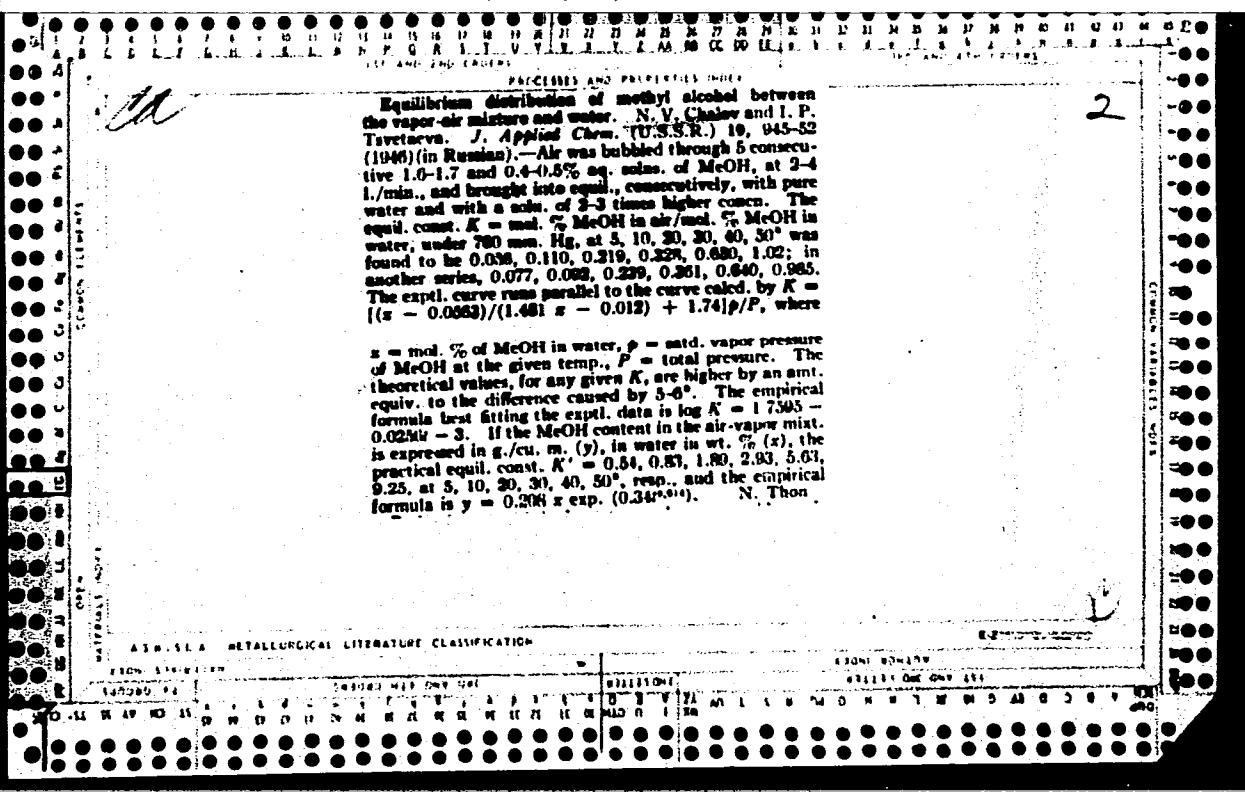
10

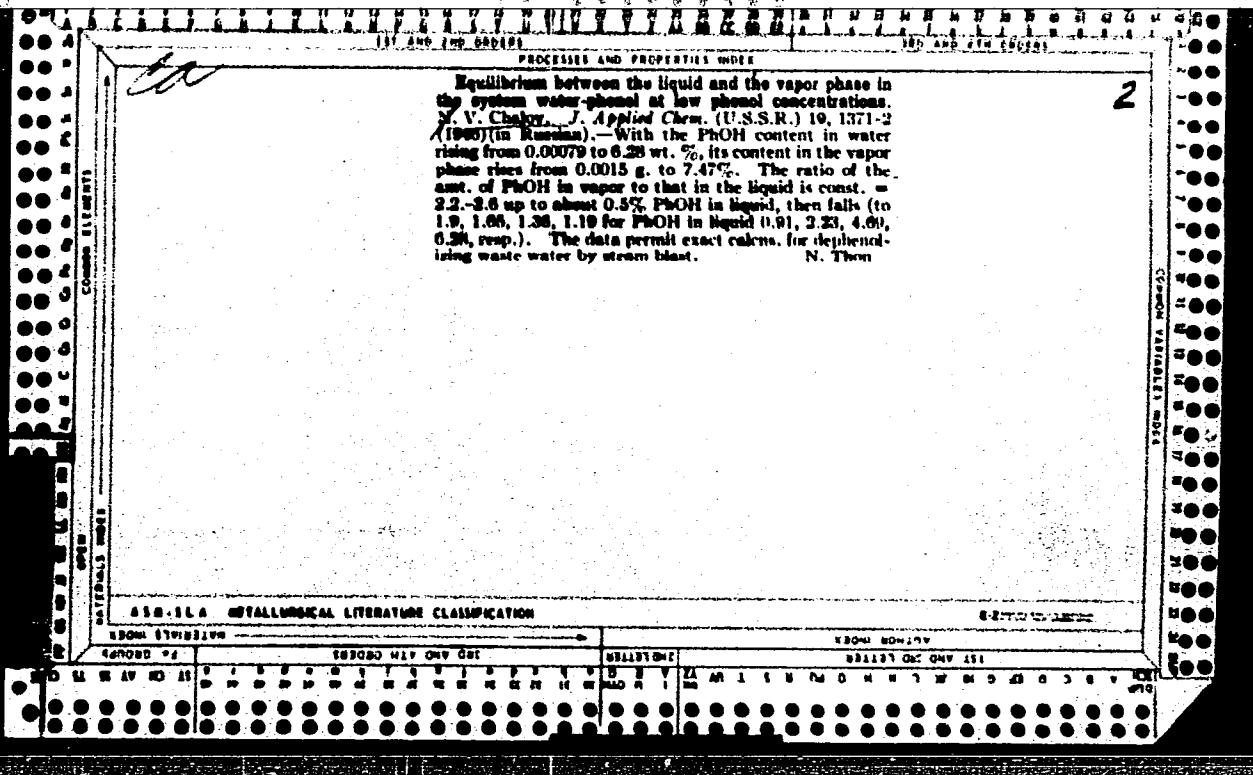
PROCESS AND PROPERTIES INDEX

ASIM-LLA METALLURGICAL LITERATURE CLASSIFICATION

SEARCHED	INDEXED	FILED
SERIALIZED	FILED	SEARCHED
1900-1949	1950-1959 ONLY G.R.	1960-1969
D 12 13 14 15 16	D 17 18 19 20 21 22	D 23 24 25 26 27 28
H 12 13 14 15 16	H 17 18 19 20 21 22	H 23 24 25 26 27 28
N 12 13 14 15 16	N 17 18 19 20 21 22	N 23 24 25 26 27 28
P 12 13 14 15 16	P 17 18 19 20 21 22	P 23 24 25 26 27 28
S 12 13 14 15 16	S 17 18 19 20 21 22	S 23 24 25 26 27 28
Z 12 13 14 15 16	Z 17 18 19 20 21 22	Z 23 24 25 26 27 28

COLUMBIC ELEMENTS		PROCESSES AND PROPERTIES INDEX												COLUMBIC ELEMENTS	
		1ST AND 2ND ORDER						3RD AND 4TH ORDER							
Ca		Trihydroxyaluminum acid. - N. V. Chalov. U.S.S.R. 66,613, Feb. 26, 1946. A neutral Ca xylonate is treated first at 60° and then at 100° with a mixt. of H ₂ SO ₄ and HNO ₃ . The H ₂ SO ₄ is added in a quantity needed to liberate the xylonic acid from its salt while HNO ₃ is added in 1.5 times the calcul. amt. - M. Hench												10	
MATERIALS		ASM-ISA METALLURGICAL LITERATURE CLASSIFICATION												B-27-27-28-14-2002	
SUBJECTIVE		SUBJECTIVE ONE ONE ONE						SUBJECTIVE ONE ONE ONE						SUBJECTIVE ONE ONE ONE	
140000	04	0	0	0	0	0	0	0	0	0	0	0	0	0	0





CA

7

Determination of ethyl alcohol in dilute aqueous solutions. N. V. Chalov. U.S.S.R. #9,874, Dec. 31, 1947. The method is based on the conversion of ETOH into NO_2 , hydrolyzing the latter and quantitatively deg. HNO_3 . To remove oxidized N oxides, gaseous Et nitrite is washed with an alk. permanganate soln. The accuracy of this method is $\sim 3\%$. The presence of phenols, org. acids, chlorides, ketones, and other org. substances does not interfere. M. House

1ST AND 2ND GROUPS		3RD AND 4TH GROUPS										5TH AND 6TH GROUPS	
		PROCESSES AND PROPERTIES INDEX											
COMBINE ELEMENTS	OPEN											S	
MATERIALS INDEX												INDEXES	
AIA-SLA METALLURGICAL LITERATURE CLASSIFICATION													
100000-1000000		SUBJECT INDEX		COLLECTIONS		EXCERPT INDEX							
100000-1000000	1000000-10000000	10000000-100000000	100000000-1000000000	1000000000-10000000000	10000000000-100000000000	100000000000-1000000000000	1000000000000-10000000000000						
10000000000000-100000000000000	1000000000000000-1000000000000000	10000000000000000-10000000000000000	100000000000000000-100000000000000000	1000000000000000000-1000000000000000000	10000000000000000000-10000000000000000000	100000000000000000000-100000000000000000000	1000000000000000000000-1000000000000000000000						

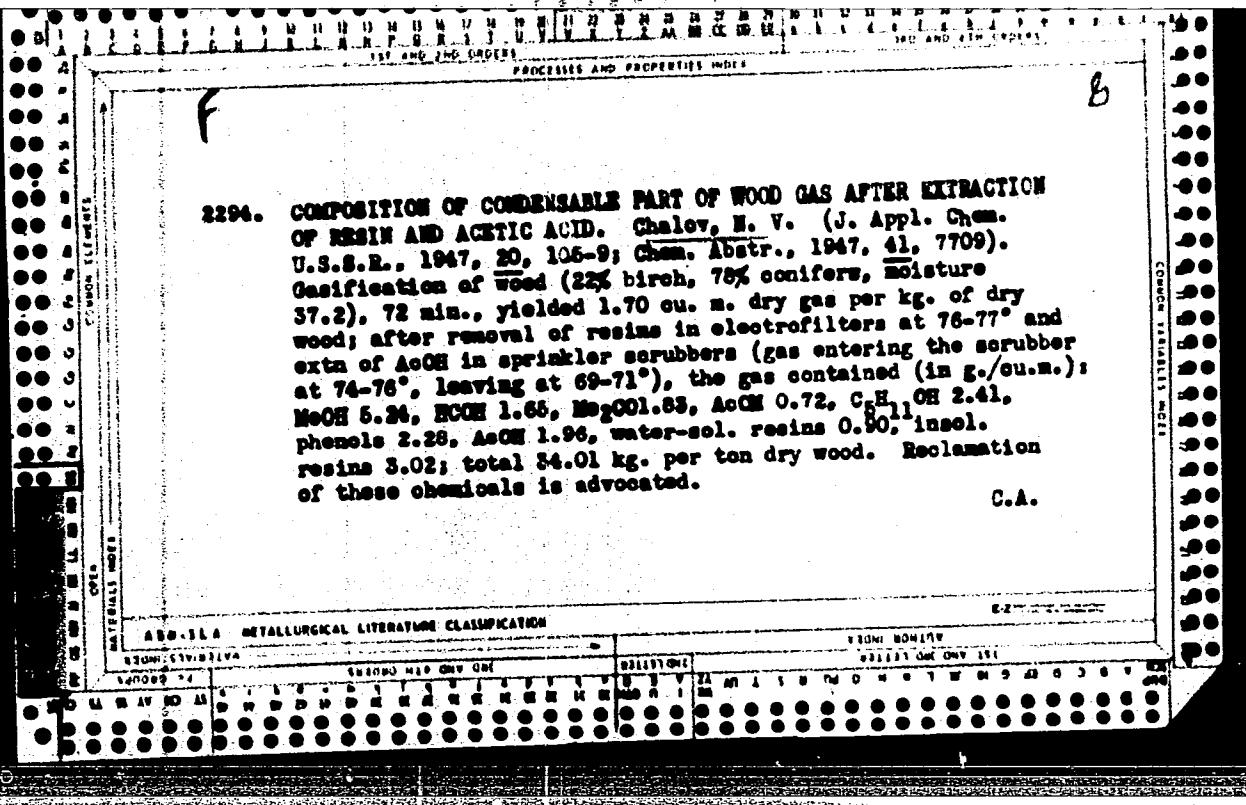
733. PURIFICATION OF PRODUCER GAS GENERATED FROM WOOD IN A SHEET TYPE ELECTROFILTER. Chalov, N. V. and Lyamin, V. A. (Vestnik Inzhenerov i Tekh., 1947, No. 1, 34-9; Chem. Abstr., 1947, 41, 7077). The electrofilter removed 95% of the total tar in the gas and 99% of the tar present in the form of fog. This requires that the gas stay 10-14 sec. in the elec. field. To prevent contamination of the tar with H₂O, the gas entering the filter should be 8-10° above the dew point. Under such conditions the tar contained 20-5% moisture and the losses of AcOH did not exceed 2%. G. A.

CA

21

The wood chemistry industry for utilization of the by-products of the gasification of wood. N. V. Chakov.
Zemsta Press, 7, No. 9, 17-19(1947).—The by-products from wood gasification in metallurgical plants and glass plants are processed to recover AcOH, alc. products, tar, etc.

Marshall Sittie



CHALOV, N. V.

Chalov, N. V. "The assistance of the ENIIGS to the industry in the battle for the utilization of planned capacities", Gidroliz. prom-st' SSSR, 1948, No. 6, p. 5-6.

So: U-3261, 10 April 53, (Lektoris 'Zhurnal 'nykh Statey, No. 12, 1949).

CHALOV, N. V.

PA 49/49T25

USSR/Chemistry-Glutaric Acid
Chemistry-Oxalic Acid

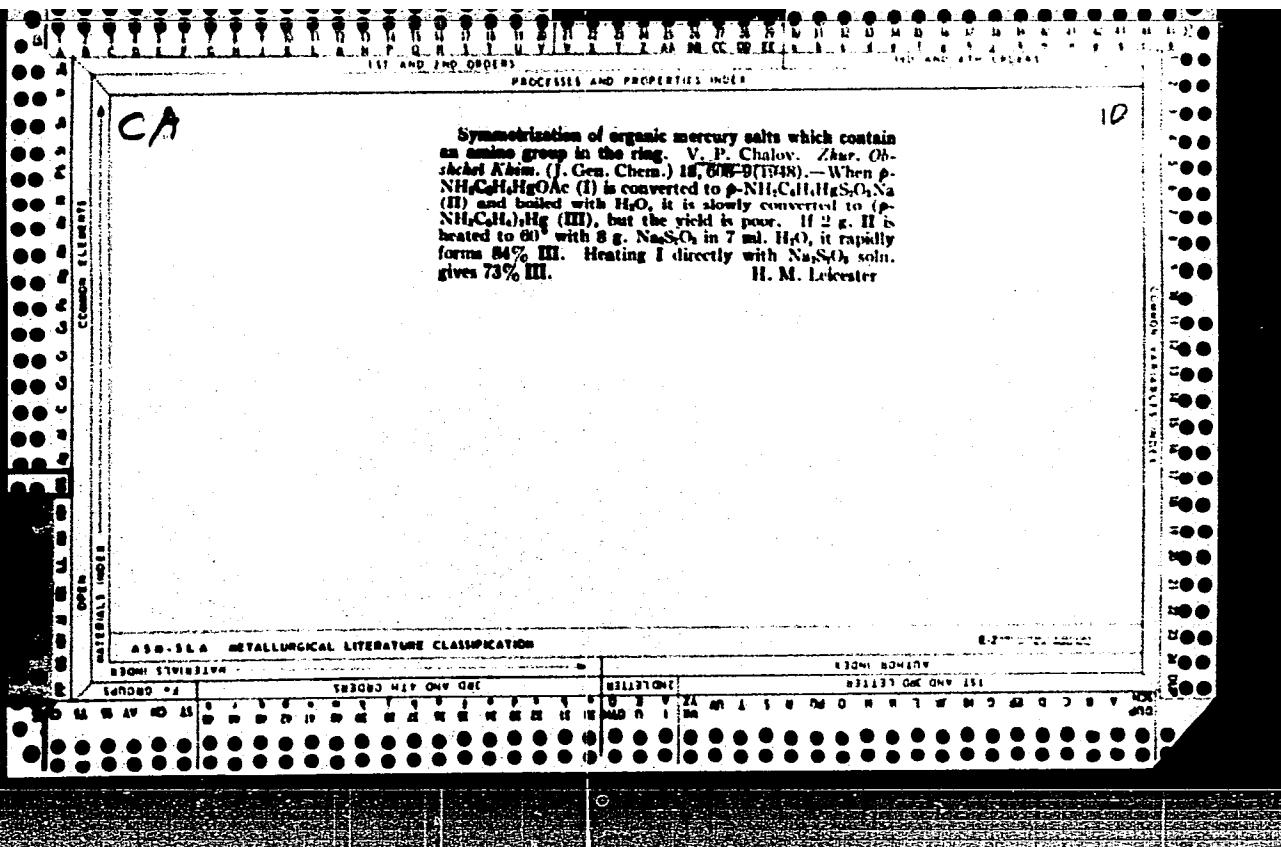
Dec '48

"Determination of Trioxylglutaric, Oxalic and
Nitric Acid When They are Present Together," N.
V. Chalov, A. I. Kurzhevnikova, All-Union Inst
of Sulfite-Alcohol and Hydrolysis Ind, 1st pp

"Zavod Lab" Vol XIV, No 12

Describes a method for quantitative determination
of nitric, oxalic and trioxylglutaric acids in the
mixture obtained after oxidizing xylose with
nitric acid. Accuracy is 2-3% for oxalic and 2%
for trioxylglutaric.

49/49T25



CA

PROCESSED AND PREPARED WITH

Preparation of trihydroxyglutaric acid by oxidation of xylose by nitric acid. N. V. Chalov. *Zhur. Prilad. Khim.* (J. Applied Chem.) 21, 486-95 (1948).—Oxidation of xylose by HNO_3 (d. 1.2) at 60° gives low yields of trihydroxyglutaric acid (I). Only heating on a steam bath results in 38% yield. Hence the prepns, given by Fischer [*Ber.* 24, 1830 (1891)] depend for the appearance of I upon the evapn. period rather than on the 40° "reaction" period. The temp. should be under 60° as a higher temp. lowers the yields (contradicts Kline and Acree (*C.A.* 24, 5527)). The best HNO_3 concn. is 55% (d. 1.35) which gives 50% yields, with the optimum amt. of HNO_3 (calcd. to 100% acid) of 170-200 g./100 g. xylose. A 2-hr. heating

period at 60° is sufficient, followed by 0.5-hr. heating up to 60° and holding 10 min. Apparently the 60% yield limit is set by formation of xylosolactone, which does not oxidize to I. I was isolated as the neutral Ca salt.

G. M. Kovaliovoff

10

*R & Sci Res Inst Sulphites, Alcohols and
Hydrolysis Industry*

ABISLA METALLURGICAL LITERATURE CLASSIFICATION

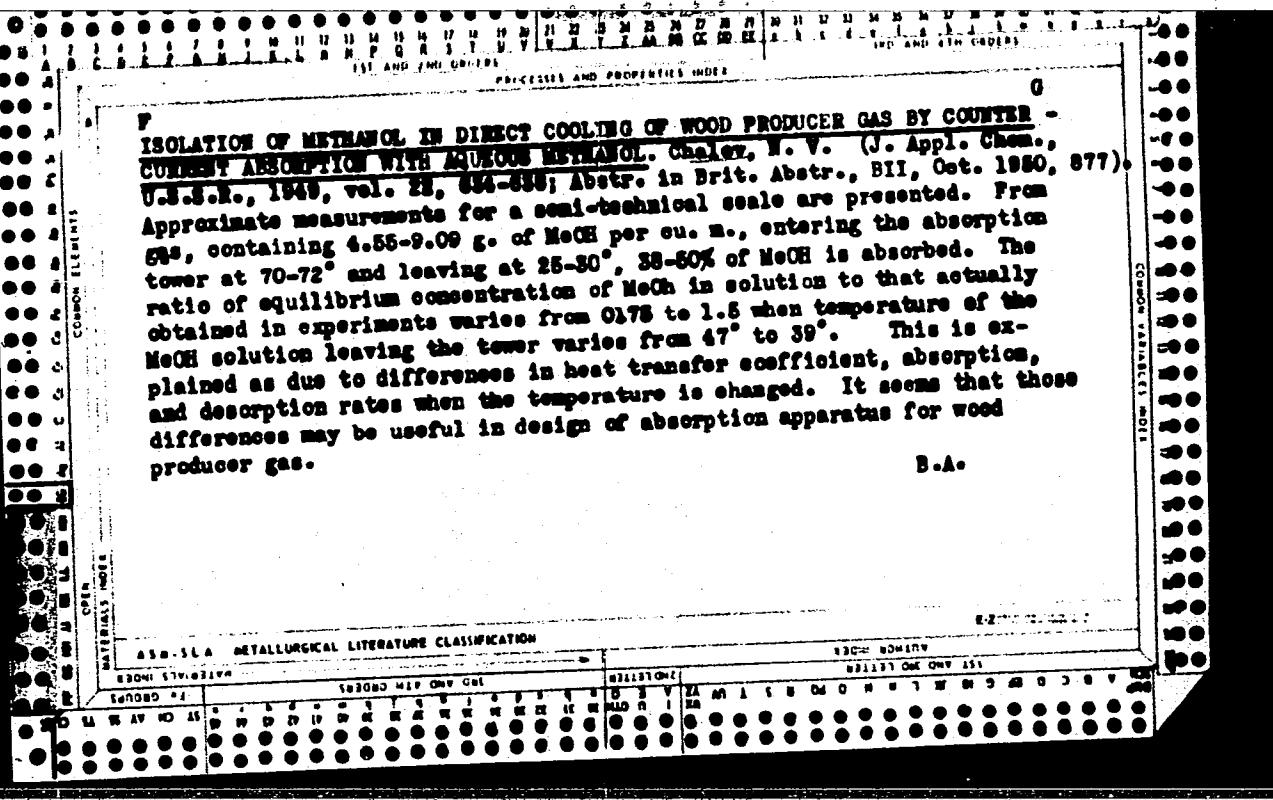
SEARCHED	SERIALIZED	FILED	SEARCHED		SERIALIZED		FILED	
			SEARCHED	SERIALIZED	SEARCHED	SERIALIZED	SEARCHED	SERIALIZED
M	M	A	M	M	M	M	M	M

C 11

23

Battery hydrolysis of the hemicelluloses of birchwood at atmospheric pressure. N. V. Chelov and S. S. Glazman. Zhur. Prilob. Khim. (J. Applied Chem.) 21, 496-501 (1948); Chem. Zentral. (Russian Transl.) 1949, I, 1453.—A study was made to det. those conditions which would require least acid for the hydrolysis of birch chips with H_2SO_4 . Tests were made with 2, 3, 4, and 5% H_2SO_4 . The chips contained 23.7% pentoseas calcd. on the ash. dry matter. They yielded a max. of 17-18% of reducing substances. The presence of the latter retarded the hydrolysis. A multiple-stage hydrolysis is recommended, and a 4-stage hydrolysis battery is described. Best results were obtained with 3% acid and a reaction period of 4 hrs. The hydrolysis obtained contained an av. of 9-13% of reducing substances. The H_2SO_4 consumption was 42.7 kg. per 100 kg. of reducing substances in the hydrolysate. This is from 1/2 to 1/3 the acid required for the usual 1-stage operation and corresponds to the amt. used in the autoclave method.

M. G. Moore



10

The nitric acid balance in the oxidation of xylose. N. V. Chalev and Z. T. Filippova. *Zhur. Priklad. Khim.* (J. Applied Chem.) 22, 1273-8 (1949).—Analysis of the products of oxidation of xylose by HNO₃ at elevated temp. in a N stream at 60° gave the following product distribution. With acid of d. 1.3, 50.6-52.5% of the HNO₃ enters the reaction and goes to NO and NO₂, 45-7% does not react, and 2-4% is lost. The NO/NO₂ ratio is 3.06-3.57. In order to lower the amt. of unchanged acid the use of more concd. acid (59.4%, d. 1.37) was studied. This leaves only 20%

unreacted acid. The amt. of acid for optimum yield of trihydroxyphthalic acid is 170-200 g. HNO₃/100 g. xylose; hence, the best yield, 62.8%, was obtained with 200 g. 59% HNO₃. The amt. of (CO₂H)₃ formed ranges from 1.5 to 5.24%. G. M. Kosolapoff

CA

10

Evaluation of various methods of preparation of tri-hydroxyglutaric acid from xylose. N. V. Chalov, O. G. Temir, Z. P. Gavrilova, and A. I. Kruzhnikova. *Zhur. Prilob. Khim.*, 30, 274-80 (1951); *J. Applied Chem. U.S.S.R.* 24, 301-9 (Engl. translation).—The best method is that suggested by Sychev (*C.A.* 32, 4327). The method of Plyushkin (*C.A.* 29, 5417) is uneconomical and that of Aizenberg and Zilberman (Russ. patent 60,288) requires too great amounts of HNO_3 . For best results use 160 g. HNO_3 (d_4 1.35-1.4) per 100 g. xylose 2 hr. at 60°. G. M. K.

CTRSPL Vol. 5-No. 1 Jan. 1952

Chalov, N.V., Temir, O.G., Gavrilova, Z.P. and Kruzhevnikova, A.I. (All-Union Scientific Research Institute of the Sulfide Liquor and Hydrolysis Industry). A comparative evaluation of the different methods of obtaining tri-oxyglutaric acid from xylose, 274-82

Akademiya Nauk, S.S.R., Doklady Vol. 24 No. 7

CHALOV, N.V.

✓ Separation of trihydroxyglutaric and oxalic acids by decomposition
of a mixture of their calcium salts with sulphuric acid. N. V.
Chalov and R. M. Myasnikova (*J. appl. Chem. USSR*, 1952, 25, No. 7
773-776).—When a mixture of Ca trihydroxyglutarate (I) and
oxalate (II) is treated with H_2SO_4 , I is first decomposed to yield
the free acid, followed by II, and if the quantity of H_2SO_4 is
practically equiv. only to the I present, a quant. separation of the
two acids can be achieved. This method eliminates the loss of
trihydroxyglutaric acid inherent in the usual industrial separation,
based on fractional precipitation with $Ca(OH)_2$, of the mixed
acids obtained in the oxidation of xylose with HNO_3 .

R. C. MURRAY

1. CHALOV, N.V.; VOLSKAYA, L.P.
2. USSR (600)
4. Water - Purification
7. Purification of waste water containing phenols, aldehydes, and methyl alcohol.
Zhur. prikl. khim. 25 no.10, 1952.
9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

CHALOV, N.V.

Chemical Abst.
Vol. 48
Apr. 10, 1954
Cellulose and Paper

(1)

The influence of moisture content and chip height in gas generators on the yield of tars and acetic acid. N.V. Chalov. *Drevopererabatyvayushchaya i Lesokhim. Trud.* 2, No. 12, 10-18 (1953).—Wood chips (length 75-80 mm., width 50-150 mm., and thickness 10-10 mm.) from 20% birch and 80% spruce with a small amt. of pine and larch were carbonized in a continuous wood-gas producer plant; the combined distg. zone and dry zone height (I) was 3.47 m., and av. retention time was 1.30 hrs. The H₂O content (II) of the chips and the yield (as % bone-dry wood) of tars (III) and AcOH (IV) by month for Jan. through Dec. were 41.6, 10.5, and 2.96; 41.7, 9.3, and 2.21; 43.4, 9.6, and 1.02; 45.1, 9.3, and 1.01; 42.5, 11.1, and 2.29; 38.9, 17.7, and 4.06; 38.2, 15.3, and 4.01; 33.5, 15.9, and 3.60; 33.5, 17.5, and 3.34; 40.7, 12.8, and 2.72; 43.0, 10.5, and 2.57; and 40.1, 11.1 and 3.16; av. monthly air temps. were -15.3, -10.7, -5.5, 2.0, 9.8, 18.2, 19.4, 20.2, 6.3, 6.9, -2.7, and -10.5°, resp. The effect of I on III and IV was studied in a gas generator 4.8 m. diam., 2.45 m. from firegrate to charging hopper. I was 1.8, 1, 0.85, 0.68, 0.6, and 0.53 m.; II was 28.4, 27.8, 29.4, 28.3, 32.4, and 21.0; % beech in the beech-spruce mixt. 31.0, 20.7, 22.7, 31.5, 50.0, and 21.3; III was 17.50, 19.50, 20.80, 20.51, 23.00, and 23.40; and IV was 4.80, 4.01, 4.80, 4.00, 6.05, and 5.09, resp. In general, III and IV increased with decreasing I and II.

John Lake Keays

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000308120006-1

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000308120006-1"

✓ Recovery of acetic acid from hydrolytic liquors. N. V.

Chalov, B. N., Goryainikh, and V. A. Dushin. *Gidrolyznyj*

Laboratory, Prom. 6, No. 1, 14-151111. The rate of AcOH from the evapd. industrial neutralizate (hydrolytic liquor had solids 8.0%, AcOH 0.50, and HCOOH 0.005%), it was evapd. to 30-40% of solids, was studied with the purpose of establishing the optimum conditions for the recovery of AcOH. The app. consisted of an automatic liquor feeding liquor evapng. column, AcOH absorption column, receiver for the absorbed material column. During the experiments a steady state temperature of 40°C was maintained in the column at a vacuum of up to 3 mm Hg. The evapd. was stopped owing to the high resistance of the system. A 50% was evapd. up to 11.8-99.6% from the liquor vapor, and no foam trouble was encountered. Details of the exp. are given

T. Jurecic

(2)

1. VS<33YU2NYY Nauchno-issledovatel'skiy inst. hidrolyznyj sulfatno-spirtovoy promyshlennosti (For Chalov and Goryainikh)
- 3. Yaroslavskiy hidrolyznyj zavod (For Dushin) (Acetic acid)

CHALOV, N.V.; GORYACHIKH, Ye.F.; VODOLAZOVA, L.M.

Investigation of liquid-vapor systems in binary phenol solutions
Gidroiz. i lesokhim. prom. 8 no.3:11-12 '55. (MIRA 8:9)

1. Vsesoyusnyy nauchno-issledovatel'skiy institut gidroizmoy i
sul'fitno-spirtevoy promyshlennosti
(Phenols)

Chalov, N. V.

✓ Utilization of acid water from wood dry distillation plants.
N. V. Chalov. *Cidraliz, i Lesokhim. Prom.*, 8, No. 4, 14-18 MT.

(1955).—Acid water, contg. 10-25% of dissolved tar, 3.0-5.0% of AcOH, 0.24-0.80% of HCOOH, 0.20-0.80% of volatile phenols (I), and 0.08-0.12% of MeOH accumulates in gas pipe lines at wood-generating plants. In the tar are β -glucosan, pentosans, OHC-COCH_3 , $\text{CH}_3\text{COCH}_2\text{OH}$, lactones of hydroxy acids, glycol, and several other compds. Carbohydrates represent around 30% of the tar substances. To conc. tar and to recover AcOH two types of equipment were designed. One installation is a three-effect evaporator. The evapd. liquor vapors are treated with $\text{Ca}(\text{OH})_2$ soln. which ppts. $(\text{AcO})_2\text{Ca}$. Vapors from the first effect are rectified to recover volatile phenols, MeOH, and other compds. The second installation consists of two-effect evaporators. AcOH is recovered from the first-effect vapors, and vapors from the second effect are used to moisten air going to the gas generator. The acid water is concd. to a degree where it contains 69-70% of the sol. tar, 4-6% of AcOH, and 24-28% of water. MeOH is recovered completely, I 45-50%, and AcOH 65-70%. Sol. tar might be useful as a source of glucose, EtOH, foundry binder, and heavy fuel oil. $\text{Ca}(\text{OH})_2$ soln. absorbs up to 99% of AcOH, and the tech. $(\text{AcO})_2\text{Ca}$ contains 74.1% of $(\text{AcO})_2\text{Ca}$, 1.3% of $(\text{HCOO})_2\text{Ca}$, and 13.2% of impurities. T. Jurgis

Chalov, N. V.

2

Production of trihydroxyglutaric acid from cottonseed hulls. N. V. Chalov and E. F. Goryachikh. *Cidrolis. i Lesokhim. Prom.* 9, No. 3, 10-12(1950).—The sequence of operations in processing trihydroxyglutaric acid by oxidation of pentosans and uronic acids obtained in the hydrolysis of cottonseed and sunflower-seed hulls, corn husks, and hardwoods with HNO_3 is discussed. T. Jurecic

Ves, much.-isolated. met. gdrobizing i sulfit. -spirit. prom.

✓ Separation of 2-furaldehyde and volatile phenols from wood resin. N. V. Chalov, L. V. Gordon, and S. O.

~~Chalov, Gordon, and S. O.~~ ²
The authors report calcs. and the results of pilot plant expts. in which they succeeded in seprg. by fractional distn. raw 2-furaldehyde and phenols from the liquid phase obtained in the dry distn. of birchwood. T. Jurek

(b) ✓ Concentration of 2-furaldehyde in the evaporation of hydrolyzate without heat losses. N. V. Chalov, N. P. Melnikov, Yu. A. Tsvirkin, and N. S. Postnikova. *Zhurnal Lesobiotekhnicheskikh Issledovaniy i Praktik*, No. 6, p. 10 (1986). An installation is described in which 2-furaldehyde (I) is obtained from the hydrolyzate with only a small consumption of steam. Vapors (II) from the hydrolyzate enter a tank desorber provided with a few plates and then go to heat exchangers. The condensate from the heat exchangers is sent to a separator where 1 part is drawn off and the other part is passed to I, is returned to the top of the separator. The condensate, having at an equal 7-8 times less I than II, runs off the bottom plate. The concn. of I in the final soln. is dependent upon the rate of condensate removal. The no. of theoretical plates is given by $n = \log \left(\frac{x_1}{x_K} \right) \left(\frac{PK}{P} - 1 \right) + 1 / \log \left(\frac{PK}{P} \right) - 1$, where x_1 is the amt. of I in the top plate (mole %), x_K is the amt. of I in the condensate, P is the amt. of II in the desorber, K is the phase equil. coeff., and P is the amt. of condensate returning to the desorber from the separator. The optimum concn. of I in II is considered to be 3-8%. This low concn. promotes the separ. of turpentine and MeOH. The course of the operation is: hydrolyzate is first evapd. in two steps. Vapors from the 1st evaporator go to heat exchangers and from there to the desorber. Vapors from the 2nd evaporator enter the desorber at the bottom. A 2nd set of evaporators receives the vapors from the desorber. The condensed vapors (III) are then pumped to a storage tank where turpentine is partially sepd. From there III enter a continuous fractionating col-

1/2

CHALOV, N.V., MEL'NIKOV, N.P., TSIRLIN, YU.A...
T. Jurecic

umn (IV) with a dephlegmator and a cooler. MeOH fraction (85-90% MeOH) is drawn off the top, MeOH-turpentine fraction (40% MeOH and up to 10% of turpentine (V)) is drawn off at a lower level. After V is sepd. this fraction is dild. and returned to IV. Water-furaldehyde fraction is cooled and sepd. into raw I and water-furaldehyde layer. Raw I is rectified in a column operating under re-

duced pressure (discontinuously). The tech. I has 98% of pure I; the main and middle fractions are recycled. The loss of I during this operation is 5%. The layout of the Leningrad Hydrolytic Plant is described in detail.

T. Jurecic

2/2

С.ХАЛОВ, Н.В.

СHALOV, N.V., kand.tekhn.nauk; GORYACHIKH, Ye.F.

Organic acids from vegetable raw material. Khim.nauka i prom. 2
no.4:458-461 '57. (MIRA 10:11)

(Acids, Organic)

Concentration equilibrium of acetic acid in water solution
vapor phase system. N. V. Chalov and O. A. Aleksandrov
Gidrokhim. Izdatelstvo Akad. Nauk SSSR, Moscow, 1959.
AcOH in water and AcOH vapor phase conc. of $\pm 1\%$
at 20°C, 30°C, 40°C, 60°C, and 80°C were measured.
The app. consisted of a water bath held at const temp ($\pm 0.02^\circ$), and of a glass column held 2-3° higher than the
water bath to which a container with a manometer and an
outlet was connected. Water vapor-AcOH mixt. was col-
lected in a flask. AcOH was detd. by titration to phenol-
phthalain endpoint. The data agreed with the general
equation $\log K = (0.029495 - 0.001534xY - 1.68707 +$
 $0.015638x)$, where K was the phase equil. coeff., t the centi-
grade temp., and x the concn. of AcOH in water in percent
by wt. The relation between the calcd. and exptl. values
was within an error of less than 2%. T. Jurecic

Vsesoyuznyy nauchno-issledovatel'skiy institut
glikoliziny i sovremennoe spetsialisticheskoye proizvodstvo

Liquid vapor phase equilibrium of I in II
and III at 25°C.

and external heating of Gillespie, C.A. 49, 596 -
distillate flow rate of 8.5 ml./min., and a total time of 3.5-4
hrs. At 760 mm. and 40% of H_2O in I there was 17.2% of I in
II. There was 17.2% of I in II when there was 100 mm.
and 40% of I in II. There was 17.2% of I in II when there was
60 mm. and 40.4% of I in II there was 21.1% of I in II.
At low concns. of I in II the amt. of I in II increased when the
temp. was raised, but at higher concns. the amt. of water in
III was increased. The 760-mm. equil. curve crossed the
50-mm. curve at 44%, 100 mm. at 48%, and 20
mm. of I in II. When the vapor pressure
vs. boiling temp. were plotted against the
percentage of I in II straight lines were obtained on
a semi-log scale. This graph could be utilized in being able
to determine the percentage of I in II in either II or III. Plotting the percentage of I in II
against the log of vapor pressure of water in II or III gave a
straight line and the data of different authors.

17.2
MT

liquid-vapor equilibrium

Chalov, N. V.

CHALOV, N.V.; ALEKSANDROVA, O.A.

Liquid - vapor phase equilibria in the system acetic acid - water at atmospheric and reduced pressures. Gidroliz. i lesokhim. prom. 10 no. 6:10-12 '57. (MIRA 10r12)

1. Vsesoyusnyy nauchno-issledovatel'skiy institut gidrolyznoy i sul'fitno-spirtovoy promyshlennosti.
(Acetic acid) (Phase rule and equilibrium)

CHALOV, N.V.; ALEKSANDROVA, O.A.

Equilibrium of acetic acid in the system gas-generator wood tar.
Gidroliz. i lesokhim.prom. ll no.8:8-11 '58. (MIRA 11:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrolyznoy i
sul'fitospirtovoy promyshlennosti.
(Acetic acid) (Wood tar)

CHALOV, N.V.; ALEKSANDROVA, O.A.

Wood hydrolysis with gaseous hydrogen chloride at atmospheric pressure. Gidroliz. i lesokhim.prom. 12 no.1:14-18 '59.

(MIRA 12:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrolyznoy i sul'fitnospirtovoy promyshlennosti.
(Wood--Chemistry) (Hydrochloric acid)

CHALOV, N.V.; GORYACHIKH, Ye.F.; LESHCHUK, A.Ye.

New method for the hydrolysis of wood by concentrated hydrochloric acid. Gidroliz.i lesokhim.prom. 12 no.3:3-5 '59.

(MIRA 12:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidroliznoy i sul'fitno-spirtovoy promyshlennosti.
(Hydrolysis) (Hydrochloric acid) (Wood)

CHALOV, N.V.; GORYACHIKH, Ye.P.; LESHCHUK, A.Ye.

New arrangement for the hydrolysis of wood by hydrochloric acid.
Gidroliz i lisokhim.prom. 12 no.4:1-4 '59. (MIRA 12:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrolyzoviy
sul'fitnospirovoy promyshlennosti.
(Wood--Chemistry) (Hydrolysis)

CHALOV, N.V.; ALEKSANDROVA, O.A.

Reducing the specific consumption of hydrogen chloride in
hydrolysis. Gidroliz.i lesokhim.prom. 12 no.8:12-14 '59.
(MIRA 13:4)

1. Nauchno-issledovatel'skiy institut gidrolyznoi i fitno-
spirtovoy promyshlennosti.
(Hydrolysis) (Hydrochloric acid)

LAYKEVICH, S.S.; BATUTIN, Yu.A.; CHALOV, N.V.

Use of automatic elevators by the Noril'sk expedition. Biul.
nauch.-tekhn.inform,VIMS no.1:51-55 '60. (MIRA 15:5)

1. Krasnoyarskoye geologicheskoye upravleniye.
(Noril'sk region--Hoisting machinery) (Automatic control)

CHALOV, N.V.; LESHCHUK, A.Ye.; ALEKSANDROVA, O.A.

Hydrolysis of polysaccharides of plant tissue with concentrated hydrochloric acid and gaseous hydrogen chloride. Zhur. prikl. khim. 33 no.12:2743-2750 D '60. (MIRA 14:1)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut gidroliznoy i sul'fitno-spiritovoy promyshlennosti.
(Hydrochloric acid) (Polysaccharides)

CHALOV, N.V.; AMAN, A.Kh.

Hydrolysis of hemicellulose components of pine wood with 30-36%
hydrochloric acid. Zhur.prikl.khim. 34 no.7:1601-1608 J1 1961.
(MIRA 14:7)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut gidrolyznoy i
sul'fitno-spirtovoy promyshlennosti.
(Hemicellulose) (Hydrolysis)

CHALOV, N.V.; LESHCHUK, A.Ye.; KOROTKOV, N.V.; GORYACHIKH, Ye.F.; AMAN, A.Kh.;
PAMSIKIVI, L.B.; ALEKSANDROVA, O.A.

Hydrolysis of cellulose lignin by a 44-45% hydrochloric acid solution
in a diffusion battery. Zhur. prikl. khim. 34 no. 12:2737-2745 D '61.
(MIRA 15:1)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut gidroliznoy i
sul'fitno-spirtovoy promyshlennosti.
(Lignin) (Hydrolysis)

CHALOV, N.V.

Mechanochemical destruction of polysaccharides in the presence
of sulfuric acid. Gidroliz. i lesokhim. prom. 15 no. 7:4-7 '62.

(MIRA 16:8)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut gidroliznay
i sul'fitnospirtovoy promyshlennosti.
(Hydrolysis)

CHALOV, N.V.; PAASIKIVI, L.B.

Hydrolysis of the polysaccharides of pine wood with 38-41%
hydrochloric acid at 20°. Zhur.prikl.khim. 35 no.6:1347-1355
Je '62. (MIRA 15:7)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut gidroliznoy
i sul'fitno-spirtovoy promyshlennosti.
(Polysaccharides) (Hydrolysis)

CHALOV, N.V.; LAPPO-DANILEVSKIY, Yu.K.; GORYACHIKH, Ye.F.; BLINOVA, N.N.;
ZHDANOVA, L.A.

Chemicomechanical degradation of linters in the presence of
sulfuric acid. Sbor.trud.NIIGS 12:87-98 '64.

(MIRA 18:3)

LESHCHUK, A.Ye.; CHALOV, N.V.

Equilibrium in the system polysaccharides- hydrolysis products -
hydrochloric acid. Gidroliz. i lesokhim. prom. 18 no.5:10-13 '65.

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidroliznoy
i sul'fitno-spirtovoy promyshlennosti. (MIRA 18:7)

L 39032-66 EWT(m)/EWP(j) RM
ACC NR: AP6021756 (A) SOURCE CODE: UR/0328/66/000/002/0003/00006

AUTHOR: Chalov, N. V.; Leshchuk, A. Ye.; Kozlova, L. V.; Volkova, T. M.

ORG: VNIIGS

TITLE: Indices of hydrolysis of polysaccharides with 65-90% sulfuric acid at the equilibrium stage of the reaction

SOURCE: Gidroliznaya i lesokhimicheskaya promyshlennost', no. 2, 1966, 3-6

TOPIC TAGS: polysaccharide, hydrolysis, sulfuric acid, cellulose

ABSTRACT: The equilibrium in the system polysaccharides - sulfuric acid - water - products (glucose) was investigated. On a triangular diagram, the system under consideration (H_2SO_4 - water - glucose) is represented by a straight line. Graphical analysis of the hydrolyzate compositions showed that at room temperature this system consists of a solution of the compound $C_6H_{12}O_6 \cdot 1.37 H_2SO_4$ in 62% sulfuric acid. The hydrolysis of polysaccharides virtually comes to a halt at a certain concentration of acid and sugars because of the formation of compounds between H_2SO_4 and the hydrolysis products, determined as glucose, so that the true concentration of the latter in the solution drops to 62.5% by weight. The H_2SO_4 -glucose compound is analogous to that formed by reacting cellulose with liquid hydrogen chloride or by hydrolyzing cellulose with 38-50% hydrochloric acid. From the data obtained, the minimum possible specific consumption of H_2SO_4 insuring the complete hydrolysis of cellulose and polysaccharides

UDC: 634.0.863:547.458

Card 1/2

24

B

L 39032-66

ACC NR: AP6021756

D

at 20°C was determined. It is suggested that the specific consumption of H₂SO₄ can be considerably reduced by raising the H₂SO₄ concentration and the temperature of the hydrolysis process. Orig. art. has: 3 figures.

SUB CODE: 07/ SUBM DATE: none/ ORIG REF: 009/ OTH REF: 004

cmu 2/2 ccf

PHASE I BOOK EXPLOITATION 785

Baranov, V.I.; Morozova, N.G.; Serdyukova, A.S., Chalov, P.I.; and Shashkin, V.L., Compilers.

Spravochnik po radiometrii dlya geofizikov i geologov (Handbook on Radiometry for Geophysicists and Geologists) Moscow, Gosgeoltekhnizdat, 1957. 198 p. 15,000 copies printed.

Ed.: Baranov, V.I.; Ed. of Publishing House: Koloskova, M.I.; Tech.
Ed.: Gurova, O.A.

PURPOSE: The manual is intended for exploration geophysicists and geologists and it may be useful to students interested in the subject of radioactivity prospecting.

COVERAGE: The manual covers the field of radioactivity detection and the equipment and apparatus used in this type of prospecting and it describes a number of methods for field work. The manual deals only with the natural radioactivity of geochemical elements as they occur in the earth. Artificial radioactivity is not taken into account.

Card 1/2

Handbook on Radiometry for Geophysicists and Geologists 785

The book surveys the radioactive elements and gives their essential characteristics. Terminology and units are defined and theories of radioactivity explained. Material on apparatus and applied prospecting is limited to about 50 pages. Of particular interest is Chapter VI, dealing with the problem of determining the geological age of any given formation by radioactive methods. There are 95 tables, 21 figures, 122 Soviet references and 54 English, 4 German, and 1 French reference.

TABLE OF CONTENTS:

Foreword	3
Ch. I. Radioactive Transmutation	
1. General information on radioactivity	
a) Soddy-Fajans displacement law	5
b) Periodic table (Mendeleyev's periodic system)	5
c) Series disintegration of radioactive elements	6
d) Tables of radioactive elements	8
e) Mean energies of radioactive emissions given off during one moment of decay	10
f) Naturally occurring radioactive elements outside of series	24
Card 2/0	26

CHALOV, P.I.

Determination of uranium isotope composition (U^{238} , U^{234})
based on the ratio of alpha to beta radiation. Trudy Inst. geol.
AN Kir. SSR no.9:227-230 '57. (MIRA 11:4)
(Uranium--Isotopes)

SOV/137-58-8-16708

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 8, p 68 (USSR)

AUTHOR: Chalov, P.I.

TITLE: Electrical Precipitation of Uranium on a Copper Cathode
(Elektroosazdeniye urana na mednom katode)

PERIODICAL: Tr. In-ta geol. AN KirgSSR, 1957, Nr 9, pp 231-235

ABSTRACT: A study is made of the electrical deposition of U from an acetate medium on a Cu cathode, with the object of obtaining U preparations in layers of infinite thinness without the use of Pt cathodes. Simultaneously, a study was made of the coprecipitation of a thorium isotope UX₁. Precipitation was performed on Cu disks 40 mm in diameter and 0.5 mm thick; a revolving Pt cone served as anode. Cathode potential was monitored by a mercury-sulfate half cell. The electrolyte contained 1 mg U and 3 g Na acetate. Its volume was ~150 cc. In the majority of experiments the electrolyte also contained 0.2 cc glacial acetic acid. The following were found to be the optimum conditions for electrical precipitation of U: Cathode potential from -0.87 to -0.93 v, solution temperature 80-95°C, pH 5.75-5.89, electrolysis time 40-60 min. Under these conditions 95-96%

Card 1/2

SOV/137-58-8-16708

Electrical Precipitation of Uranium on a Copper Cathode

of the U and 50-60% of the UX₁ precipitated at the cathode. This often necessitates prior removal of the UX₁ from the solution.

V.M.

1. Uranium--Precipitation
2. Uranium--Electrodeposition
3. Cathodes--Performance
4. Electrolysis

Card 2/2

CHALOV, P.I.; MUSIN, Ya.A.; PERVUKHINA, K.I.

Determining the comparative migration properties of the UX₁ (Th²³⁴)
in supergene uranium deposits. Zap. Kir. otd. Vses. min. ob-va
no.1:113-124 '59. (MIRA 14:3)

(Thorium—Isotopes) (Uranium)

3(8)

AUTHOR:

Chalov, P. I.

SOV/7-59-2-11/14

TITLE:

The Isotope Ratio of U^{234} and U^{238} in Several Secondary Minerals
(Izotopnoye otnosheniye U^{234}/U^{238} v nekotorykh vtorichnykh mineralakh)

PERIODICAL: Geokhimiya, 1959, Nr 2, pp 165-170 (USSR)

ABSTRACT:

The isotopic ratio of U^{234} and U^{238} was determined by methods previously developed by the author (Ref 2). The α -activity was measured by means of the apparatus DA, β -activity was determined by means of the apparatus B-2 with the counter AS-2. The intensity was compared to the intensity of a standard sample of pitchblende. In order to check the method used, 6 samples were investigated by means of α -spectra by Professor V. V. Cherdynsev at the problemnaya laboratoriya (Laboratory for Solution of Problems) of the kafedra eksperimental'noy fiziki (Chair of Experimental Physics) of Kazakhskiy gosudarstvennyy universitet (Kazakh State University) (Table 2). An investigation was made of 12 samples of "otenite" (a radium-bearing mineral), torbernite, and zeunerite from the oxidation zone; of 10 samples of schroockingerite and pitchblende from

Card 1/2

SOV/7-59-2-11/14
The Isotope Ratio of U^{234} and U^{238} in Several Secondary Minerals

the cementation zone below the oxidation zone; and of 22 samples of pitchblende from the cementation zone (Table 1). It was shown that the radioactive equilibrium between

U^{234} and U^{238} is disturbed since an impoverishment of U^{234} takes place. There are 2 tables and 6 Soviet references.

ASSOCIATION: Institut geologii Akademii nauk Kirgizskoy SSR, Frunze
(Institute of Geology of the Academy of Sciences of the Kirgizskaya SSR, Frunze)

SUBMITTED: October 6, 1958

Card 2/2

CHALOV, P.I.; MUSIN, Ya.A.

Radiometric determination of the uranium-238 and thorium-234 content
of solutions in the presence of other radioactive elements of the
uranium series. Izv. AN Kir. SSR. Ser. est. i tekhn. nauk 1 no.3:
113-118 '59. (MIRA 14:9)

(Radioisotopes)

MUSIN, Ya.A.; CHALOV, P.I.

Comments on the application of gamma radiation from the products
of radium decay as an indicator of the quantitative uranium content
in ores. Izv. AN Kir. SSR. Ser. est. i tekhn. nauk 1 no.3:119-125
'59. (MIRA 14:9)

(Radium--Decay) (Gamma rays) (Uranium)

27.2400

S/169/62/000/006/052/093
D228/D304

AUTHOR: Chalov, P. I.

TITLE: Relative and "absolute" radioactivity measurements

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 6, 1962, 11, abstract 6B90 (Izv. AN KirgSSR, Ser. yestestv. i tekhn. n., 3, no. 1, 1961, 163-165)

TEXT: In a certain part of the literature the term absolute radioactivity measurement is understood to be a measurement method based on the effectiveness of registering a specimen's total radioactive radiation with allowance for absorption, particle scattering, the geometry of the measurements, and other factors. The author reckons this method, too, to be relative, like the method in which an instrument is directly calibrated by radioactive isotopes. The main difference is the way in which the recording system is calibrated. Abstracter's note: Complete translation. /B

Card 1/1

CHALOV, P.L.; TUZOVA, T.V.; MUSIN, Ya.A.

Isotopic U²³⁴/U²³⁸ ratio in natural waters and its use for nuclear geo-
chronology. Geokhimiia no.5:404-413 My '64. (MIRA 18:7)

1. Institut of Physics and Mathematics, Academy of Sciences of the Kirghiz
Soviet Socialist Republic, Frunze.

CHALOV, P.I.; TUZOVA, T.V.; MUSIN, Ya.A.

Isotopic ratio U^{234}/U^{238} in natural waters and its use in
geochronology. Izv. AN SSSR Ser. geofiz. no.10:1552-1561
O '64.
(MIRA 17:11)

1. Institut fiziki i matematiki AN Kirgizskoy SSR.

CHALOV, P.I.; MUSIN, Ya.A.; TUZOVA, T.V.; MERKULOVA, K.I.

Isotope shift between U²³⁴ and U²³⁸ in secondary uranium minerals
of some hydrothermal deposits. Atom. energ. 19 no.1:82-84 Jl '65.
(MIRA 18:7)

L 21934-66 EWA(h)/EWT(1)/EWT(m)/FCC GW
ACC NR: AP6014486

SOURCE CODE: UR/0089/65/019/005/0470/0472

AUTHOR: Chalov, P. I.; Tsevelev, M. A.

ORG: none

TITLE: Relative levels of fission fragment fallout from the stratosphere 19 71
SOURCE: Atomnaya energiya, v. 19, no. 5, 1965, 470-472 B

TOPIC TAGS: stratosphere, radioactive fallout, troposphere, ruthenium, cesium, cerium, beta radiation, gamma radiation, fission product

ABSTRACT: The concentration of radioactive aerosols in the lowest atmospheric layers increases during the spring and summer, then decreases during the fall and winter. These seasonal variations are due to changes in the exchange rate between the air masses of the stratosphere and the troposphere. The relative level of the stratospheric fallout was determined by comparing the fission-product fallout density of the long-lived isotopes during the summer of 1962 when tropospheric fallout still could occur with the 1963 data when the fallout had to be of stratospheric origin only in view of the nuclear test ban. The fallout density was derived from the average beta + gamma activity of the monthly samples. The plot of these data as a function of time revealed that the total activity of ^{137}Cs , ^{144}Ce , and ^{106}Ru in the fallout during 1962 and 1963 exhibited variations usually observed only in the air layer directly above the ground. The 1962 maximum had to be attributed to an overlap of the stratospheric and tropospheric fallout. The 1963 maximum was due primarily

Card 1/2

L 21934-66

ACC NR: AP6014486

to fission products from the stratosphere; it exceeded that 1962 maximum by a factor about 3. This was caused by the introduction of new fission products into the atmosphere during the 1962 tests, which reached the troposphere during the spring and summer of 1963. The cumulative fallout density and the related gamma dose during the nuclear test ban period is thus due mostly to the stratospheric fallout. Orig. art. has: 2 figures. [NA]

SUB CODE: 18, 04 / SUBM DATE: 13Feb65 / ORIG REF: 006

Card 2/2 nst

L 06186-67 EWT(1) RO/GW
ACC NR: AP6019518

SOURCE CODE: UR/0362/66/002/002/0205/0207

AUTHOR: Chalov, P. I.; Tsevelev, M. A.

27

26

B

ORG: Institute of Physics and Mathematics, Academy of Sciences KirgSSR (Akademiya nauk KirgSSR, Institut fiziki i matematiki)TITLE: Wash out of radioactive aerosols by atmospheric precipitation below the cloud level

SOURCE: AN SSSR. Izvestiya. Fizika atmosfery i okeana, v. 2, no. 2, 1966, 205-207

TOPIC TAGS: radioactive fallout, radioactive aerosol, atmospheric precipitation, atmospheric cloud

ABSTRACT: Radioactive fallout stainless-steel samplers (collecting surface of 0.38 m²) were set on a hill slope at 2070, 2477, and 2689 m above sea level during 0.1–0.5 mm/hr rainfalls in June 1963. Beta-radiation was determined with a B-2 radiometer and an SI-2B counter in dry residues of the collected rainfall water. The difference ($I_0 - I_{24}$) between the radioactivity of the lower and upper rainfall samples, attributable to fallout wash out by precipitation, fluctuated between 0.05 and 7.9 units, with greater values for Sc and lower values for Cu. Solid fallout radioactivity at the same points was generally lower (1.0–2.09) than

Card 1/2

UDC: 551.510.721

L 06186-67

ACC NR: AP6019518

comparable rainfall radioactivity (1.0-8.9 units). These results prove the entrainment of radioactive fallout in atmospheric precipitation and the existence of a dependence of the intensity of the process on a particular class of clouds producing rainfall. Orig. art. has: 2 tables.

SUB CODE: 04,18/ SUBM DATE: 10Apr65/ ORIG REF: 006/ OTH REF: 011

Card 2/2 of

CHALOV, P.I.

Calculating the moisture content of flour. Khleb.i kond.prom.
6 no.6:21-23 Je '62. (MIRA 15:7)

1. Volgogradskiy trest khlebopекarnoy promyshlennosti.
(Flour)
(Moisture--Measurement)

MAKKAVEYEV, N., prof.; CHALOV, R., inzh.

Methods of improving navigation conditions on the Ob' River.
Rech. transp. 22 no.9:45-47 S '63. (MIRA 16:10)

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000308120006-1

CHALOV, R.S.

Stream pattern at the section of tributary confluence with the main river. Vest. Mosk. un. Ser. 5: Geog. 19 no.1:61-63 Ja-F '64.
(MIRA 17:4)

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000308120006-1"

MAKKAVEYEV, N.I.; CHALOV, R.S.

Morphological indications of current accumulations in a river valley.
Izv. AN SSSR. Ser. geog. no.3:84-89 My-Je '63. (MIRA 16:8)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.
(Ob' Valley—Alluvium)

CHALOV, R.S.

Dynamics of rifts and its quantitative characteristics.
Vop. geog. no.63:100-111 '63. (MIRA 17:3)

MAKKAVEYEV, N.I.; CHALOV, R.S.

Surface relief development of river terraces and the symptoms
of river bed erosion; based on the example of the upper Ob'.
Izv. AN SSSR Ser. geog. no.4:120-125 '64 (MIRA 17:8)

1. Moskovskiy gosudarstvennyy universitet.

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000308120006-1

CHALOV, R.S.

Mechanism of the riverain sandbar formation. Izv. Vses. geog.
ob-va. 96 no. 5:433-434 S-0 '64.
(MIRA 17:12)

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000308120006-1"

MAKKAVEYEV, N.I., prof.; LAPTEV, M.I.; MITYAKOVA, M.N.; KONDRAKHOVA, Ye.I.;
SHANKIN, P.A.; EZHANITSYN, N.A.; RABKOVA, Ye.K.; VYKHLOV, K.P.;
CHALOV, R.S.

[Planning the navigable channels of unregulated rivers.]
Proektirovanie sudovykh khodov na svobodnykh rekakh. Moskva,
Transport, 1964. 261 p. (Moscow. Tsentral'nyi
nauchno-issledovatel'skii institut ekonomiki i ekspluatatsii
vodnogo transporta. Trudy, no. 36). (MIRA 18:12)

CHALOV, V.G. (Leningrad)

New test for the functional prognosis of fenestration of the labyrinth
in otosclerosis. Zhur. ush., i gorl. bol. 20 no.6:45-48 N-D '60.
(MIRA 15:2)

1. Iz kafedry bolezney ukha, gorla i nosa (zav. - zasluzhennyj
deyatel' nauki prof. K.L.Khilov) Voyenno-meditsinskoy ordena Lenina
akademii imeni S.M.Kirova.

(LABYRINTH (EAR) SURGERY) (OTOSCLEROSIS)

VASIL'YEV, A.I., kand.med. nauk; CHALOV, V.G.

Substantiation of the preservation of the head malleus in the
fenestration of the labyrinth. Zhur. ush., nos. i gorl. bol. 23
no.4:3-6 Jl-Ag'63. (MIRA 16:10)

1. Iz. kafedry otorinolaringologii (nachal'nik - zasluzhennyy
deyatel' nauki prof. K.L.Khilov) Voyennomeditsinskoy ordena
Lenina akademii imeni S.M.Kirova.
(LABYRINTH (EAR) — SURGERY)

VASIL'YEV, A.I., kand. med. nauk; CHALOV, V.G. (Leningrad)

Role of the muscles of the tympanic cavity in the mechanism of sound conduction in an experiment. Zhur., ush., nos. i gor. bol. 24 no.2:9-12 Mr-Ap '64 (MIRA 18:t1)

1. Iz kafedry o'tharinogolegii (nachal'nik -asluzhennyj deyatel' nauki prof. K.L. Khilov) Voyennno-meditsinskoy ordema Lenina akademii imeni S.M. Kirova.

CHALOV, V.I.; LIPIN, B.V.

Smelting copper-zinc concentrates in suspension. TSvet.
met. 35 no.7:29-31 J1 '62. (MIRA 15:11)
(Zinc-Metallurgy) (Copper-Metallurgy)

L 21177-66 EWT(d)/EWT(m)/EWP(v)/T/EWP(t)/EWP(k)/EWP(h)/EWP(l) JD/HM
ACC NR: AP6007921 (N) SOURCE CODE: UR/0125/66/000/002/0069/0071

AUTHOR: Koval', A. B.; Chalov, V. I.

ORG: Institute of Electric Welding im. Ye. O. Paton, AN UkrSSR (Institut elektro-svarki AN UkrSSR)

TITLE: System for controlling the motion of the electron beam in welding electron guns

SOURCE: Avtomaticheskaya svarka, no. 2, 1966, 69-71

TOPIC TAGS: electron beam welding, electron beam motion, electron beam welder, motion control

ABSTRACT: A device for automatic control of the beam motion in electron-beam welders has been developed. The device employs two electromagnetic fields perpendicular to each other, both of which are time functions of the same frequency. In a general case, the focal point of the beam travels along an ellipse with axes whose lengths are determined by the current in magnetic coils. When current is the same in both coils, the ellipse becomes a circle. The device is especially effective in welding circular or elliptic joints in the horizontal plane, such as occur in joining tubes to the tube plate. It eliminates the need for complicated positioning and rotating attachments and greatly simplifies the design of electron-beam welders. Orig. art. has: 4 figures.

SUB CODE: 13 SUBM DATE: 08Feb65/ ATD PRESS: 1/22 [DV]
Card 1/1 13K UDC: 621.791.85

CHALOV, V. P.

PA 8/49T32

USSR/Chemistry - Mercury Compounds
Chemistry - Mercury Salts

Apr 48

"Symmetrization of Mercury-Organic Salts Containing
an Amino Group in the Nucleus," V. P. Chalov, 2 pp

"Zhur Obshch Khim" Vol XVIII (LXXX), No 4

Shows that symmetrization of sodium p-aminophenyl-
mercurhyposulfate is completed by boiling few
minutes with an aqueous solution of hyposulfite.
Same method applicable to mercury organic salts
with a dialkylamino group in the nucleus. Submitted
21 Feb 1947.

8/49T32

L. O. M. I.-G EMT(j)/EMT(v)/EMT(k)/EMT(h)/EMT(l)
ACC NR: AP6039953 (A, N) SOURCE CODE: UR/0413/66/000/015/0131/0132

INVENTORS: Fal'kov, L. G.; Rutskiy, V. V.; Simkin, Yo. L.; Rubin, A. Ya.; Narinokiy,
F. I.; Bogolyubov, S. A.; Shakhevnaia, G. V.; Chalov, V. S.; Rabinov, A. I.; Pivkov,
P. M.; Ivanov, K. V.

ORG: none

TITLE: Movable apparatus. Class 49, No. 164584

SOURCE: Izobret prom obraz tav zn, no. 15, 1966, 131-132

TOPIC TAGS: metalworking, gas welding, metal welding, welding equipment, welding technology, milling machine

ABSTRACT: This Author Certificate presents a movable apparatus for machining the edges prior to welding two large objects. The apparatus contains a milling head mounted on self-propelled carriages. The head is fed axially along the outline of a detail by a pantographic copying mechanism. To increase the efficiency and the accuracy in milling the edges located on any plane upon an immovable structure, the self-propelled carriages are placed on the surfaces being machined (see Fig. 1). The apparatus itself is provided with an auxiliary milling head for machining the opposite edge facing the first one. The edges are separated by gas cutting torches placed in front of the moving apparatus.

Card 1/2

UDC: 621.914.37-182.3:621.791.945.021

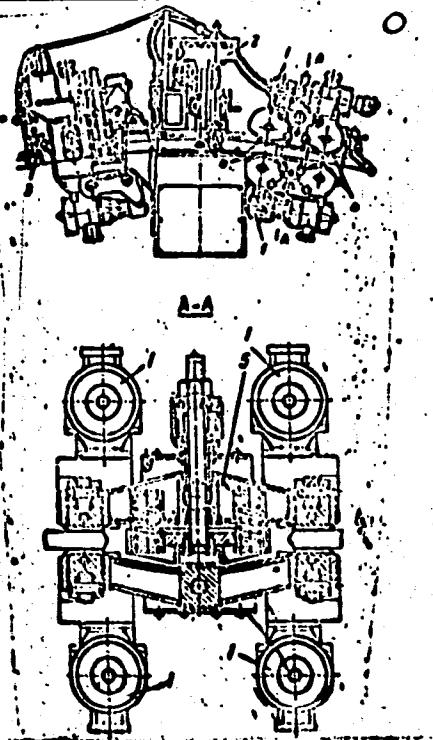
L 09257-67

ACC NR. AP6029953

Fig. 1. 1 - self-propelled carriages; 2 - milling heads; 3 - gas cutting torches; 4 - running rollers; 5 - coupling device

Orig. art. has: 1 figure.

INFO COPY: 13 / SUBM DATE: 20 May 64



DUBROVITSKAYA, N.I.; FURST, G.G.; CHALOVA, T.A.

Biological characteristics of the cacao tree raised in a
greenhouse. Biul. Glav. bot. sada no.55:114-122 '64.
(MIR4 18:11)
1. Glavnnyy botanicheskiy sad AN SSSR.

KOLOSOV, A.K.; CHALOVA, Ye.A.

International comparisons of the national standards of the volt
for the period 1939-1959. Trudy Inst. Kom. stand., mer i izm.
prib. no.52:5-14 '61. (MIRA 14:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii
im. D.I. Mendeleyeva.
(Electric standards)

KOLOSOV, A.K.; SVETLAKOVA, L.F.; CHALOVA, Ye.A.

Study of nonsaturated standard components at increased and decreased temperatures. Trudy inst. Kom. stand. mer i izm. prib.
no.67:12-27 '62. (MIRA 17:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii imeni
Mendeleyeva.

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000308120006-1

GLAGOLEVA, Ye.P.; GRADSKAYA, N.N.; KOLOSOV, A.K.; MYULLER, V.V.; SAVUSHKINA,
A.S.; CHALOVA, Ye.A.

New small-size e.m.f. meters. Nov.nauch.-issl.rab.po metr. VNIIM
no.4:4-6 '64. (MIRA 18:3)

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000308120006-1"

KHARAKOZ, A.Ye.; CHALOVA, Ye.P.; BABENKO, V.G.; BLESCHINSKIY, S.V.;
MUSTAYEV, A.K.

Complex formation in the systems consisting of phosphoric acid -
alkali - sesquioxides. Izv.AN Kir.SSR.Ser.est.i tekhn.nauk 4
no.9:141-147 '62. (MIRA 16:4)

(Phosphoric acid) (Alkalies) (Iron oxides)
(Complex compounds)

BLESHINSKIY, S.V.; KHARAKOZ, A.Ye.; CHALOVA, Ye.P.; ALTYNNIKOVA, P.M.;
OSIPOVA, T.P.

Phosphate method for stripping rare-earth minerals. Izv. AN Kir.
SSR. Ser. est i tekhn. nauk 5 no.4:17-21 '63. (MIRA 16:10)

BLESHINSKIY, S.V.; KHARAKOZ, A.Ye.; LUKIN, I.N.; BABENKO, V.G.; CHALOVA,
Ye.P.; Prinimali uchastiye: ABRAMOVA, V.F.; VINOGRADOV, V.P.;
USUBAKUNOV, M.; GORBUNOV, V.D.; OSIPOVA, T.P.; NAGAYEVA, A.G.;
MEDVEDEVA, V.A.; ALTYNNIKOVA, P.M.

Fluosilicic method for separating rare-earth elements. Izv.
AN Kir. SSR. Ser. est. i tekhn. nauk 5 no.4:23-24 '63.
(MIRA 16:10)

BLESHINSKIY, S.V.; KHARAKOZ, A.Ye.; ABRAMOVA, V.F.; VINOGRADOV, V.P.;
BABENKO, V.T.; KACHKIMBAYEVA, S.A.; Prinimali uchastiye:
USUBAKUNOV, M.; NAGAYEVA, A.G.; GORBUNOV, V.D.; MEDVEDEVA,
V.A.; CHALOVA, Ye.P.; ALTYNNIKOVA, P.M.

Method for separating rare-earth elements based on the thermal
dissociation of sulfates. Izv. AN Kir. SSR. Ser. est. i tekhn.
nauk 5 no.4:25-26 '63. (MIRA 16:10)

L 62929-55 EPA(s)-2/EWT(m)/EPF(c)/EWP(t)/EMP(b)/EPF(n)-2
ACCESSION NR: AP5020501

IJP(c) JD/JG

UR/0078/65/010/008/1853/1856
546.641+546.284'32'161

DB
71B

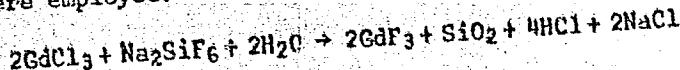
AUTHOR: Chalova, Ye. P.; Bleshinskiy, S. V.

TITLE: Interaction between rare earth chlorides of the yttrium group and sodium fluosilicate

SOURCE: Zhurnal neorganicheskoy khimii, v. 10, no. 8, 1965, 1853-1856

TOPIC TAGS: dysprosium compound, gadolinium compound, yttrium compound, sodium compound, fluorine compound, silicate, chloride, chemical precipitation

ABSTRACT: The precipitation of dysprosium, gadolinium, and yttrium from dilute aqueous solutions of their chlorides by sodium fluosilicate Na_2SiF_6 was studied at 25°C in order to determine the chemical species in which the rare earth elements precipitate at various ratios of the reacting components. The methods of solubility, pH measurement, electrical conductivity, and determination of the weight of the precipitates were employed. The following reaction is thought to take place:



Card 1/2

I 62929-65

ACCESSION NR: AP5020501

X-ray analysis of the gadolinium precipitate showed lines characteristic only of gadolinium fluoride. It was found that all three rare earth elements precipitate completely when the molar ratio of Na_2SiF_6 to the rare earth chloride has reached 0.6. Below this value, the solutions are colloidal in character. Orig. art. has: 3 tables, 2 formulas.

ASSOCIATION: Institut neorganicheskoy i fizicheskoy khimii Akademii nauk KirgSSR
(Institute of Inorganic and Physical Chemistry, Academy of Sciences, KirgSSR)

SUBMITTED: 23Dec63

ENCL: 00

SUB CODE: IC

NO REF Sov: 016

OTHER: 004

dm
Card 2/2

TSVETKOV, P., inzh.; CHAL'OVSKA, Sl., inzh.; RADEVA, M., inzh.

Influence of temperature and the amount of hardener on
the durability of gluing. Kozhi Sofia 5 no. 1: 5-7
'64.

ZHIVKOVA, L., inzh.; CHAL'OVSKA, Sl., inzh.; RADEVA, M., inzh.

Shoe machines and conveyors. Kozhi Sofia 4 no. 8: 20
'63.

TURENKO, Ivan Yakovlevich; CHURIKOV, Semen Stepanovich; CHALOVSKII, Vladimir Alekseyevich; SLM'KO, B., red.; BABIL'CHANOVА, G., tekhn.
zad.

[Preventing the corrosion of concrete reinforcements] Zashchita
armatury ot korrozii. Kiev, Gos. izd-vo lit-ry po stroit. i
arkhit. USSR, 1961. 18 p. (MIRA 14:9)

1. Akademiya budivnystva i arkhitektury URSR.
(Concrete reinforcement—Corrosion)

CHALOYAN, V.K.

Natural scientific conceptions of Ioann Erzynkatsi (13th century).
Iz ist. est. i tekh. l:40-49 '60. (MIRA 16:12)

CHALOYAN, V.K. (Yerevan)

Representation of nature in the works of Ioann Erzynkatsi Pluz.
Vop. ist. est. i tekh. no.13:112-114 '62. (MIRA 16:5)

(Philosophy of nature)